

Amendments to the Claims:

1-16. (Cancelled)

17. (New) A static mixing device (1), containing

- at least one first mixing element (A) which on a front side (V) has a plurality of ducts (2) transversely to a main flow direction (H), the ducts (2) not being connected to one another, but having passage orifices (3) in the main flow direction (H); and
- at least one second mixing element (B) which is in contact with the first mixing element (A) and which has on a front side (V) a plurality of ducts (2) transversely to the main flow direction (H), the ducts (2) being connected to one another; in the ducts (2) orifices (4) being provided which allow the passage of a medium in the main flow direction (H) from the ducts (2) of the front side (V) to the rear side (R) of the second mixing element (B); and, on a rear side (R) of the second mixing element (B), a plurality of ducts (2), which are not connected to one another, being arranged orthogonally to the main flow direction (H),

the ducts (2) of the first mixing element (A) and of the second mixing element (B) being arranged in such a way that a passage of a medium through the mixing elements (A, B) is made possible.

18. (New) The mixing device (1) as claimed in claim 17, characterized in that the first mixing element (A) has the following features:

- the passage orifices (3) of adjacent ducts (2) are arranged in each case in opposite halves of the front side of the mixing element (A);
- no passage orifices (3) are arranged in a middle region of all the ducts (2);

and/or the second mixing element (B) has the following features:

- on a front side (V), the ducts (2) are connected to one another by means of a common connecting duct (5) which is arranged in such a way that its position corresponds essentially to a rear-side region which is free of passage orifices (3);
- in the region between a first side of the connecting duct and an outer edge of the second mixing element, passages are arranged which are not connected to the front-side ducts;

- in the region between a second side of the connecting duct and an outer edge of the second mixing element, passage orifices are provided which are connected to the ducts.

19. (New) The mixing device (1) as claimed in claim 17, the first and second mixing elements (A, B) being arranged alternately.

20. (New) The mixing device (1) as claimed in claim 17, the first and second mixing elements (A, B) being designed as stackable plates.

21. (New) The mixing device (1) as claimed in claim 19, characterized in that the first and second mixing elements (A, B) are stacked, rotated in relation to one another at an angle (a) with respect to parallel ducts (2).

22. (New) The mixing device (1) as claimed in claim 19, characterized in that

- a second mixing element (B) follows a first mixing element (A) in the main flow direction (H), the ducts (2) of this preceding first mixing element (A) being arranged parallel to the rear-side ducts (2) of the second mixing element (B);

and in that

- a first mixing element (A) follows a second mixing element (B) in the main flow direction (H), the ducts (2) of this following first mixing element (A) being oriented at an angle (a) of 90° with respect to the rear-side ducts (2) of the second mixing element (B).

23. (New) The mixing device (1) as claimed in claim 19, characterized in that the sequence of the first and second mixing elements (A, B) contains paired arrangements (x, x+1, x+2, ..., x+n) of the first and second mixing elements (A, B), in each of the paired arrangements (x, x+1, x+2, ..., x+n) the ducts (2) of the first mixing element (A) being oriented parallel to the rear-side ducts (2) of the second mixing element (B), but the ducts of a following paired arrangement (x+1) being arranged, rotated in each case at an angle (a) of 90° with respect to a preceding arrangement (x), in the main flow direction (H).

24. (New) The mixing device (1) as claimed in claim 17, characterized in that the mixing elements (A, B) have means, in particular bosses and clearances, for rotationally fixed stacking, in particular, at an angle (a) of 90° or an even-numbered multiple of 90°.

25. (New) The mixing device (1) as claimed in claim 17, characterized in that an entry piece (8) is provided upstream of a first mixing element (A, B) in the main flow direction (H), and an end piece (9) is provided downstream of a last mixing element (A, B) in the main flow direction (H).

26. (New) The mixing device (1) as claimed in claim 17, characterized in that the mixing elements (A, B) are arranged in a sleeve (10).

27. (New) The mixing device (1) as claimed in claim 26, characterized in that the sleeve (10) is closed by means of a connection piece (11) for connection to a discharge device and/or is designed to be closable.

28. (New) A supply container, in particular a multichamber tubular bag, having at least two compartments, characterized in that a mixing device (1) as claimed in claim 17 is connectable or connected releasably or fixedly to the supply container.

29. (New) A discharge device for the outlet of at least two substances to be mixed from a supply container having at least two compartments, characterized in that an outlet of the supply container is connectable or connected essentially directly to a static mixing device (1) as claimed in claim 17.

30. (New) A method for the discharge of at least two substances to be mixed from a supply container, characterized in that the mixing of the substances takes place essentially by means of a static mixing device (1) as claimed in claim 17.